

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	569	(134/201).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/04/18 17:00
L2	5	1 and (door actuator piston rod) with seal\$3 with pressur\$5	US-PGPUB; USPAT	OR	ON	2006/04/18 17:01
L3	5	1 and ((door actuator piston rod) with seal\$3 with pressur\$5)	US-PGPUB; USPAT	OR	ON	2006/04/18 17:01
S1	1556	(workpiece substrate wafer semiconductor) same ((vessel chamber) with (pressur\$4) with (closure gate door))	US-PGPUB; USPAT	OR	ON	2006/04/18 17:00
S2	190	(workpiece substrate wafer semiconductor) same ((vessel chamber) with (pressur\$4) with (closure gate door) with seal\$3)	US-PGPUB; USPAT	OR	ON	2004/10/13 13:15
S3	12	(workpiece substrate wafer semiconductor) same ((vessel chamber) with (pressuriz\$4) with (closure gate door) with seal\$3)	US-PGPUB; USPAT	OR	ON	2004/10/13 13:41
S4	5	("0643949" "3681008" "4228135" "4256701" "4426358").PN.	USPAT	OR	ON	2004/10/13 13:20
S5	0	"6048494".URPN.	USPAT	OR	ON	2004/10/13 13:22
S6	1	(workpiece substrate wafer semiconductor) same ((vessel chamber) with (pressuriz\$4) with (closure gate door) with seal\$3)	EPO; JPO; DERWENT	OR	ON	2004/10/13 13:27
S7	351	((vessel chamber) with (pressuriz\$4) with (closure gate door) with seal\$3)	US-PGPUB; USPAT	OR	ON	2004/10/14 17:55
S8	36	((vessel chamber) with (pressuriz\$4) with (closure gate door) with seal\$3) same actuat\$4	US-PGPUB; USPAT	OR	ON	2004/10/13 14:01
S9	3	((vessel chamber) with (pressuriz\$4) with (closure gate door) with seal\$3) same actuat\$4	EPO; JPO; DERWENT	OR	ON	2004/10/13 14:02
S10	10	"3623627".URPN.	USPAT	OR	ON	2004/10/13 14:43
S11	0	"6048494".URPN.	USPAT	OR	ON	2004/10/13 15:52
S12	5	("0643949" "3681008" "4228135" "4256701" "4426358").PN.	USPAT	OR	ON	2004/10/13 15:53
S13	434	(118/733).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/10 11:21
S14	4	sheydayi-alexei.in.	US-PGPUB; USPAT	OR	ON	2005/03/13 15:04
S15	1	sheydayi-alexei.in.	EPO; JPO; DERWENT	OR	ON	2004/10/14 13:06
S16	13	(US-6623355-\$ or US-6347918-\$ or US-6048494-\$ or US-4426358-\$ or US-4228135-\$ or US-4999165-\$ or US-4818001-\$ or US-4650542-\$ or US-4434964-\$ or US-3623627-\$ or US-6206227-\$ or US-4493429-\$).did. or (US-6048494-\$).did.	USPAT; DERWENT	OR	OFF	2004/10/14 17:11
S17	1	(US-3681008-\$).did.	USOCR	OR	OFF	2004/10/14 17:11
S18	8	((US-6623355-\$ or US-6347918-\$ or US-6048494-\$ or US-4426358-\$ or US-4228135-\$ or US-4999165-\$ or US-4818001-\$ or US-4650542-\$ or US-4434964-\$ or US-3623627-\$ or US-6206227-\$ or US-4493429-\$).did. or (US-6048494-\$).did.) and lock\$3	US-PGPUB; USPAT	OR	ON	2004/10/14 17:52
S19	1	((US-6623355-\$ or US-6347918-\$ or US-6048494-\$ or US-4426358-\$ or US-4228135-\$ or US-4999165-\$ or US-4818001-\$ or US-4650542-\$ or US-4434964-\$ or US-3623627-\$ or US-6206227-\$ or US-4493429-\$).did. or (US-6048494-\$).did.) and (valve with (check\$3 (build with up)) with pressure)	US-PGPUB; USPAT	OR	ON	2004/10/14 17:55

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S20	42	((vessel chamber) with (pressuriz\$4) with (closure gate door) with seal\$3) and (valve with (check\$3 (build with up)) with pressure)	US-PGPUB; USPAT	OR	ON	2004/10/14 17:55
S21	1	((US-6623355-\$ or US-6347918-\$ or US-6048494-\$ or US-4426358-\$ or US-4228135-\$ or US-4999165-\$ or US-4818001-\$ or US-4650542-\$ or US-4434964-\$ or US-3623627-\$ or US-6206227-\$ or US-4493429-\$).did. or (US-6048494-\$).did.) and (valve with (check\$3 collect\$3 (build with up)) with pressure)	US-PGPUB; USPAT	OR	ON	2004/10/14 17:56
S22	44	((vessel chamber) with (pressuriz\$4) with (closure gate door) with seal\$3) and (valve with (check\$3 collect\$3 (build with up)) with pressure)	US-PGPUB; USPAT	OR	ON	2004/10/14 18:10
S23	710	((vessel chamber) with (pressuriz\$4)) and (valve with (check\$3 collect\$3 regulat\$3 (build with up)) with pressure)	EPO; JPO; DERWENT	OR	ON	2004/10/14 18:11
S24	0	((vessel chamber) with (pressuriz\$4) with (closure gate door) with seal\$3) and (valve with (check\$3 collect\$3 regulat\$3 (build with up)) with pressure)	EPO; JPO; DERWENT	OR	ON	2004/10/14 18:11
S25	33	((vessel chamber) with (pressuriz\$4) with seal\$3) and (valve with (check\$3 collect\$3 regulat\$3 (build with up)) with pressure)	EPO; JPO; DERWENT	OR	ON	2004/10/14 18:16
S26	1	((vessel chamber) with (pressuriz\$4) with seal\$3) and ((conduit pipe line) with valve with (collect\$3 (build with up)) with pressure)	EPO; JPO; DERWENT	OR	ON	2004/10/14 18:17
S27	13	((vessel chamber) with (pressuriz\$4)) and ((conduit pipe line) with valve with (collect\$3 (build with up)) with pressure)	EPO; JPO; DERWENT	OR	ON	2004/10/14 18:22
S28	738	((vessel chamber) with (pressuriz\$4)) and ((conduit pipe line) with valve with (collect\$3 (build with up)) with pressure)	US-PGPUB; USPAT	OR	ON	2004/10/14 18:39
S29	121	((vessel chamber) with (pressuriz\$4)) and ((conduit pipe line) with valve with (collect\$3 (build with up)) with pressure with supply\$3)	US-PGPUB; USPAT	OR	ON	2004/10/14 18:40
S33	216	(220/240).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/03/10 09:57
S34	14	S33 and (pressure with caus\$3 with clos\$3)	US-PGPUB; USPAT	OR	ON	2005/03/10 09:57
S35	0	("6048494").URPN.	USPAT	OR	ON	2005/03/10 11:18
S36	7	("0643949" "3681008" "4228135" "4256701" "4426358").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/10 11:18
S37	10	(118/719.ccls. 156/345.31.ccls. 156/345.32.ccls.) and ((gate door closure valve) with (rotat\$4 pivot\$4) with (point fulcrum))	US-PGPUB; USPAT	OR	ON	2005/03/10 11:27
S38	2	(118/715.ccls.) and ((gate door closure valve) with (rotat\$4 pivot\$4) with (point fulcrum))	US-PGPUB; USPAT	OR	ON	2005/03/10 11:28
S39	630	(wafer substrate semiconductor) and ((gate door closure valve) with (rotat\$4 pivot\$4) with (point fulcrum))	US-PGPUB; USPAT	OR	ON	2005/03/10 11:28
S40	66	(wafer substrate semiconductor) and ((gate door closure valve) with (rotat\$4 pivot\$4) with (point fulcrum) with pressure)	US-PGPUB; USPAT	OR	ON	2005/03/10 11:28
S41	4	sheydayi-alexei.in.	US-PGPUB; USPAT	OR	ON	2005/03/13 15:04
S42	0	sheydayi-alexei-\$.in.	US-PGPUB; USPAT	OR	ON	2005/03/13 15:04
S43	0	10/353,192	US-PGPUB; USPAT	OR	ON	2005/03/13 15:04
S44	13	layman-frederick-p\$.in.	US-PGPUB; USPAT	OR	ON	2005/06/27 09:41
S45	0	60/178,304	US-PGPUB; USPAT	OR	ON	2005/06/27 09:41

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S46	0	60/178,304	EPO; JPO; DERWENT	OR	ON	2005/06/27 09:42
S47	2	"60178304"	EPO; JPO; DERWENT	OR	ON	2005/06/27 09:46
S48	0	(261/63.5).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/06/27 09:49
S49	395	(251/63.5).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/06/27 09:49
S50	0	S49 and supercritical	US-PGPUB; USPAT	OR	ON	2005/06/27 09:49
S51	0	"251".ccls. and supercritical	US-PGPUB; USPAT	OR	ON	2005/06/27 09:49
S52	24	"251"/\$.ccls. and supercritical	US-PGPUB; USPAT	OR	ON	2005/06/27 09:54
S53	7	"453867"	EPO; JPO; DERWENT	OR	ON	2005/06/27 09:56
S54	3	"1499491"	EPO; JPO; DERWENT	OR	ON	2005/06/27 09:57
S55	0	metallgiesserei.in.	EPO; JPO; DERWENT	OR	ON	2005/06/27 09:58
S56	0	metallgiesserei.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/06/27 09:58
S57	1454	(supercritical with carbon with dioxide) and ((valve door gate closure) with pressur\$5)	US-PGPUB; USPAT	OR	ON	2005/06/27 09:59
S58	321	(supercritical with carbon with dioxide) and ((valve door gate closure) with pressur\$5) and semiconductor	US-PGPUB; USPAT	OR	ON	2005/06/27 10:24
S59	111	(supercritical with carbon with dioxide) and ((valve door gate closure) with pressur\$5 and (actuat\$4 piston)) and semiconductor	US-PGPUB; USPAT	OR	ON	2005/06/27 10:06

EAST Search History

S60	199	("0050096" "0001929" "0036023" "0205510" "0020518" "0134515" "2617719" "2625886" "3623627" "3689025" "3744660" "3968885" "4426358" "4029517" "4091643" "4245154" "4341592" "4355937" "4367140" "4391511" "4406596" "4422651" "4474199" "4522788" "4549467" "4574184" "4592306" "4601181" "4626509" "4670126" "4682937" "4693777" "4749440" "4778356" "4788043" "4789077" "4823976" "4825808" "4827867" "4838476" "4865061" "4879431" "4917556" "4924892" "4951601" "4960140" "4983223" "5672204" "5817178" "5011542" "5044871" "5062770" "5071485" "5105556" "5143103" "5167716" "5169296" "5169408" "5185296" "5186594" "5186718" "5188515" "5190373" "5191993" "5193560" "5195878" "5213485" "5217043" "5221019" "5222876" "5224504" "5236669" "5237824" "5240390" "5243821" "5246500" "5251776" "5267455" "5280693" "5285352" "5288333" "5313965" "5314574" "5328722" "5337446" "5339844" "5355901" "5368171" "5370741" "5374829" "5377705" "5401322" "5404894" "5412958" "5417768" "5433334" "5447294" "5474410" "5494526" "5503176" "5505219" "5509431" "5526834" "5533538" "5571330" "5589224" "5621982" "5629918" "5644855" "5649809" "5656097" "5669251" "5679169" "5702228" "5706319" "5746008" "5769588" "5797719" "5798126" "5879459" "5881577" "5882165" "5888050" "5898727" "5900107" "5904737" "5906866" "5928389" "5932100" "5934856" "5934991" "5975492" "5979306" "5980648" "5981399" "5989342" "6048494" "6508259" "6005226" "6017820" "6021791" "6029371" "6035871" "6037277" "6053348" "6056008" "6062853" "6067728" "6077053" "6077321" "6082150" "6085935" "6089377" "6097015" "6109296" "6122566" "6128830" "6145519" "6159295" "6164297" "6186722" "6203582" "6216364" "6228563" "6235634" "6239038" "6241825" "6244121" "6251250" "6277753" "6286231" "6305677" "6333268" "6334266" "6344174" "6355072" "6388317" "6389677" "6406782" "6418956" "6436824" "6454519" "6454945" "6464790" "6465403" "6509141" "6521466" "6541278" "6546946" "6550484" "6558475" "6561213" "6561220" "6561481" "6561767" "6564826" "6635565" "6641678" "6722642").PN.	US-PGPUB; USPAT	OR	ON	2005/06/27 10:06
S61	7	("4426358").URPN.	USPAT	OR	ON	2005/06/27 10:08
S62	9	("5433334").URPN.	USPAT	OR	ON	2005/06/27 10:14
S63	22	("0997793" "1269572" "2010200" "2196895" "2584100" "2664611" "3258151" "3866794" "4102474" "4114933" "4315577" "4342207" "4489850" "4512496" "4625890").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/27 10:15
S64	1088	((valve door gate closure) with pressuriz\$5 with vessel) and semiconductor	US-PGPUB; USPAT	OR	ON	2005/06/27 10:24
S65	214	((valve door gate closure) with (pressuriz\$3 (positiv\$3 with pressure)) with vessel) and semiconductor	US-PGPUB; USPAT	OR	ON	2005/06/27 10:25
S66	23	((slit slot door gate closure) with (pressuriz\$3 (positiv\$3 with pressure)) with vessel) and semiconductor	US-PGPUB; USPAT	OR	ON	2005/06/27 10:29
S67	2	((slit slot door gate closure) with (pressuriz\$3 (positiv\$3 with pressure)) with vessel) and semiconductor	EPO; JPO; DERWENT	OR	ON	2005/06/27 10:34
S68	0	shrinivasan-krishnan-\$.in. shimanovich-arkadiy-\$.in. starov-vladimir-\$.in.	EPO; JPO; DERWENT	OR	ON	2005/06/27 10:34
S69	1	shrinivasan-krishnan-\$.in. shimanovich-arkadiy-\$.in. starov-vladimir-\$.in.	US-PGPUB; USPAT	OR	ON	2005/06/27 10:35
S70	11	shrinivasan-krishnan.in. shimanovich-arkadiy.in. starov-vladimir.in.	US-PGPUB; USPAT	OR	ON	2005/06/27 10:38
S71	1	("5226632").PN.	US-PGPUB; USPAT	OR	OFF	2005/06/27 10:38
S72	31	("5226632").URPN.	USPAT	OR	ON	2005/06/27 10:39
S73	1	("6073655").URPN.	USPAT	OR	ON	2005/06/27 10:44

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S74	7	("4688757" "5226632" "5343946" "5363872" "5419532" "5433238" "Re29679").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/27 10:44
S75	4	("3977423" "4909271" "4991619" "5226632").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/27 10:52
S76	21	"0155628"	EPO; JPO; DERWENT	OR	ON	2005/06/27 10:52
S77	9	"155628"	EPO; JPO; DERWENT	OR	ON	2005/06/27 10:53
S78	1	"200155628"	EPO; JPO; DERWENT	OR	ON	2005/06/27 10:54
S79	0	"200155628"	US-PGPUB; USPAT	OR	ON	2005/06/27 10:54
S80	14	sutton-thomas-r\$.in.	US-PGPUB; USPAT	OR	ON	2005/06/27 11:01
S81	408	(slit with valve with (lock\$3 interlock\$3))	US-PGPUB; USPAT	OR	ON	2005/06/27 11:01
S82	50694	("118"/\$.ccls. 156/345.\$.ccls.)(slit with valve with (lock\$3 interlock\$3))	US-PGPUB; USPAT	OR	ON	2005/06/27 11:02
S83	111	("118"/\$.ccls. 156/345.\$.ccls.) and (slit with valve with (lock\$3 interlock\$3))	US-PGPUB; USPAT	OR	ON	2005/06/27 11:04
S84	2	("118"/\$.ccls. 156/345.\$.ccls.) and (actuator with slit with valve with (lock\$3 interlock\$3))	US-PGPUB; USPAT	OR	ON	2005/06/27 11:03
S85	3	("118"/\$.ccls. 156/345.\$.ccls.) and (slit with valve with (lock\$3 interlock\$3) with prevent\$3)	US-PGPUB; USPAT	OR	ON	2005/06/27 11:03
S86	0	("118"/\$.ccls. 156/345.\$.ccls.) and (slit with valve with (interlock\$3))	US-PGPUB; USPAT	OR	ON	2005/06/27 11:04
S87	19	(slit with valve with (interlock\$3))	US-PGPUB; USPAT	OR	ON	2005/06/27 11:04
S88	1	("5579718").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/27 11:06
S89	2	("6291814").URPN.	USPAT	OR	ON	2005/06/27 11:09
S90	0	("pressurized chamber" with slit with vlave)	USPAT	OR	ON	2005/06/27 11:09
S91	2	("pressurized chamber" with slit with valve)	USPAT	OR	ON	2005/06/27 11:10
S92	25	("pressurized chamber" with door)	USPAT	OR	ON	2005/06/27 11:12
S93	2	("pressurized chamber" with (closure door) with inside)	USPAT	OR	ON	2005/06/27 11:12
S94	2	("pressurized chamber" with (closure door) with inside)	US-PGPUB; USPAT	OR	ON	2005/06/27 11:13
S95	22	("pressurized chamber" with (seal\$3) with inside)	US-PGPUB; USPAT	OR	ON	2005/06/27 11:14
S96	29	("pressurized chamber" with (seal\$3) with internal\$4)	US-PGPUB; USPAT	OR	ON	2005/06/27 11:14
S97	449	(118/733).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/06/27 12:29
S98	12	S97 and ((pressurized supercritical (positive adj pressure)) with seal\$3)	US-PGPUB; USPAT	OR	ON	2005/06/27 12:30
S99	1	10/007,227	US-PGPUB; USPAT	OR	ON	2006/01/17 20:05
S100	1	("5626324").PN.	US-PGPUB; USPAT	OR	OFF	2006/01/17 20:05
S101	0	118/718-719.ccls. and afterburner	US-PGPUB; USPAT	OR	ON	2006/01/17 20:22

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S10 2	2	118/715-733.ccls. and afterburner	US-PGPUB; USPAT	OR	ON	2006/01/17 20:22
S10 3	1	156/345\$.ccls. and afterburner	US-PGPUB; USPAT	OR	ON	2006/01/17 20:24
S10 4	2	ashing with afterburner	US-PGPUB; USPAT	OR	ON	2006/01/17 20:24
S10 5	1	("6506364").PN.	US-PGPUB; USPAT	OR	OFF	2006/01/18 15:09
S10 6	1	("6306564").PN.	US-PGPUB; USPAT	OR	OFF	2006/01/18 15:12
S10 7	1	("20020046707").PN.	US-PGPUB; USPAT	OR	OFF	2006/01/18 17:11
S10 8	5197	(liquid with crystal with display with method).ti.	US-PGPUB; USPAT	OR	ON	2006/01/18 17:11
S10 9	7	((gate slit) adj valve) with interlock\$3 with (cylinder barrel rod bar actuat\$4)	US-PGPUB; USPAT	OR	ON	2006/01/19 19:00
S11 0	52	((gate slit) adj valve) with interlock\$3	US-PGPUB; USPAT	OR	ON	2006/01/19 19:00
S11 1	4	((gate slit) adj valve) with interlock\$3 with pressure	US-PGPUB; USPAT	OR	ON	2006/01/19 19:20
S11 2	4	((gate slit) adj valve) with interlock\$3 with pressur\$7	US-PGPUB; USPAT	OR	ON	2006/01/19 19:02
S11 3	3	((gate slit) adj valve) with interlock\$3 with safety	US-PGPUB; USPAT	OR	ON	2006/01/19 19:03
S11 4	48	((gate slit) adj valve) with interlock\$3	EPO; JPO; DERWENT	OR	ON	2006/01/19 19:07
S11 5	22	((gate slit) adj valve) same pressur\$7 same interlock\$3	EPO; JPO; DERWENT	OR	ON	2006/01/19 19:18
S11 6	1	("4784037").PN.	US-PGPUB; USPAT	OR	OFF	2006/01/19 19:24
S11 7	6	("4784037").URPN.	USPAT	OR	ON	2006/01/19 19:18
S11 8	471	((gate slit) adj valve) with lock\$3 with pressure	US-PGPUB; USPAT	OR	ON	2006/01/19 19:20
S11 9	6	((gate slit) adj valve) with lock\$3 with pressure with saf\$7	US-PGPUB; USPAT	OR	ON	2006/01/19 19:21
S12 0	1	("5626364").PN.	US-PGPUB; USPAT	OR	OFF	2006/01/19 19:25
S12 1	1	("5626324").PN.	US-PGPUB; USPAT	OR	OFF	2006/01/19 19:25
S12 2	997	(high with pressure with (gate slit) with valve)	US-PGPUB; USPAT	OR	ON	2006/01/19 19:26
S12 3	630	((high adj pressure) with (gate slit) with valve)	US-PGPUB; USPAT	OR	ON	2006/01/19 19:26
S12 4	66	((high adj pressure) with (gate slit) with valve with cylinder)	US-PGPUB; USPAT	OR	ON	2006/01/19 19:52
S12 5	4	((high adj pressure) with (gate slit) with valve with cylinder and interlock\$4	US-PGPUB; USPAT	OR	ON	2006/01/19 19:27
S12 6	117	((high adj pressure) with chamber) same ((gate slit) adj valve)	US-PGPUB; USPAT	OR	ON	2006/01/19 19:34
S12 7	17	S126 and interlock\$4	US-PGPUB; USPAT	OR	ON	2006/01/19 19:28
S12 8	0	((high adj pressure) with chamber) same ((gate slit) adj valve) same interlock\$4	US-PGPUB; USPAT	OR	ON	2006/01/19 19:29

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S12 9	8	S126 and (carbon with dioxide)	US-PGPUB; USPAT	OR	ON	2006/01/19 19:37
S13 0	3	(gate with valve with interlock\$4) and (carbon with dioxide)	US-PGPUB; USPAT	OR	ON	2006/01/19 19:38
S13 1	0	(gate with valve with interlock\$4) and (carbon with dioxide)	EPO; JPO; DERWENT	OR	ON	2006/01/19 19:38
S13 2	0	(gate with valve with interlock\$4) and supercritical	EPO; JPO; DERWENT	OR	ON	2006/01/19 19:40
S13 3	12	(gate with valve) and supercritical	EPO; JPO; DERWENT	OR	ON	2006/01/19 19:42
S13 4	81	(gate adj valve) and supercritical	US-PGPUB; USPAT	OR	ON	2006/01/19 19:43
S13 5	59	(gate adj valve) and supercritical and semiconductor	US-PGPUB; USPAT	OR	ON	2006/01/19 19:43
S13 6	5	((gate adj valve) same (actua\$5 cylinder piston)) and supercritical and semiconductor	US-PGPUB; USPAT	OR	ON	2006/01/19 19:45
S13 7	0	layman.in. and ((valve) same (actua\$5 cylinder piston)) and supercritical and semiconductor	US-PGPUB; USPAT	OR	ON	2006/01/19 19:46
S13 8	14	layman.in. and ((valve)) and supercritical and semiconductor	US-PGPUB; USPAT	OR	ON	2006/01/19 19:46
S13 9	7	("2924233" "4270727" "4421298" "4515344" "4721282" "4869458").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/19 19:49
S14 0	77	((high adj pressure) same ((gate) adj valve) same cylinder)	US-PGPUB; USPAT	OR	ON	2006/01/19 19:53
S14 1	1	("6073655").URPN.	USPAT	OR	ON	2006/01/19 20:07
S14 2	7	("4688757" "5226632" "5343946" "5363872" "5419532" "5433238" "Re29679").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/19 20:08
S14 3	1469	valve same (opening with cylinder) same (closing with cylinder) same (door closure body)	US-PGPUB; USPAT	OR	ON	2006/01/20 13:48
S14 4	2371	valve same ((lift\$3 opening) with cylinder) same ((closing lower\$3) with cylinder) same (door closure body)	US-PGPUB; USPAT	OR	ON	2006/01/20 13:49
S14 5	63	(gate with valve) same ((lift\$3 opening) with cylinder) same ((closing lower\$3) with cylinder) same (door closure body)	US-PGPUB; USPAT	OR	ON	2006/01/20 14:37
S14 6	36	(gate adj valve) same ((lift\$3 opening) with cylinder) same ((closing lower\$3) with cylinder) same (door closure body)	US-PGPUB; USPAT	OR	ON	2006/01/20 13:51
S14 7	17	("5626324").URPN.	USPAT	OR	ON	2006/01/20 14:31
S14 8	0	(gate with valve) same ((lift\$3 opening) adj cylinder) same ((closing lower\$3) adj cylinder)	US-PGPUB; USPAT	OR	ON	2006/01/20 14:38
S14 9	10	(gate with valve) and ((lift\$3 opening) adj cylinder) and ((closing lower\$3) adj cylinder)	US-PGPUB; USPAT	OR	ON	2006/01/20 14:38
S15 0	35	((gate slit slot) with valve) and ((lift\$3 opening) adj cylinder) and ((closing lower\$3) adj cylinder)	US-PGPUB; USPAT	OR	ON	2006/01/20 15:38
S15 1	248	((gate slit slot) with valve) and ((seperat\$3 different) with (actuator cylinder) with (open\$3 clos\$3))	US-PGPUB; USPAT	OR	ON	2006/01/20 15:41
S15 2	8	((gate slit slot) with valve) and ((seperat\$3 different) with (actuator cylinder) with (open\$3 clos\$3) with (saf\$4 interlock\$4 prevent\$4))	US-PGPUB; USPAT	OR	ON	2006/01/20 15:40
S15 3	53	((gate slit slot) adj valve) and ((seperat\$3 different) with (actuator cylinder) with (open\$3 clos\$3))	US-PGPUB; USPAT	OR	ON	2006/01/20 18:26
S15 4	5	((gate slit slot) adj valve) and ((seperat\$3 different) with (actuator cylinder) with (open\$3 clos\$3))	EPO; JPO; DERWENT	OR	ON	2006/01/20 15:41

EAST Search History

S15 5	29	(422/118).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/01/20 18:26
S15 6	10	S155 and valve	US-PGPUB; USPAT	OR	ON	2006/01/20 18:39
S15 7	10	S155 and valv\$3	US-PGPUB; USPAT	OR	ON	2006/01/20 18:28
S15 8	19	S155 not S157	US-PGPUB; USPAT	OR	ON	2006/01/20 18:28
S15 9	83	422/117.ccls. and valve	US-PGPUB; USPAT	OR	ON	2006/01/20 18:39
S16 0	3	422/117.ccls. and (gate adj valve)	US-PGPUB; USPAT	OR	ON	2006/01/20 18:49
S16 1	0	"252".ccls. and (plurality with (cylinder actuator))	US-PGPUB; USPAT	OR	ON	2006/01/20 18:50
S16 2	1447	"251"/\$.ccls. and (plurality with (cylinder actuator))	US-PGPUB; USPAT	OR	ON	2006/01/20 19:25
S16 3	76175	(cylinder actuator) with (prevent\$3 prohibit\$3 with open\$3 with pressure)	US-PGPUB; USPAT	OR	ON	2006/01/20 18:51
S16 4	170	((cylinder actuator) with (prevent\$3 prohibit\$3) with open\$3 with pressure) and "251"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2006/01/20 18:52
S16 5	18	S164 and (gate with valve)	US-PGPUB; USPAT	OR	ON	2006/01/20 18:52
S16 6	167	"251"/\$.ccls. and ((separat\$4 seperat\$4) with (cylinder actuator) with open\$3 with clos\$3)	US-PGPUB; USPAT	OR	ON	2006/01/20 19:26
S16 7	4	"251"/\$.ccls. and ((separat\$4 seperat\$4) with (cylinder actuator) with open\$3 with clos\$3 with (saf\$3 interlock\$3))	US-PGPUB; USPAT	OR	ON	2006/01/20 19:28
S16 8	13	"251"/\$.ccls. and ((separat\$4 seperat\$4) with (cylinder actuator) with open\$3 with provid\$3)	US-PGPUB; USPAT	OR	ON	2006/01/20 19:36
S16 9	111	((separat\$4 seperat\$4) with (cylinder actuator) with open\$3 with provid\$3)	EPO; JPO; DERWENT	OR	ON	2006/01/20 19:36
S17 0	47	valve and ((separat\$4 seperat\$4) with (cylinder actuator) with open\$3 with provid\$3)	EPO; JPO; DERWENT	OR	ON	2006/01/20 20:12
S17 1	237	valve and ((separat\$4 seperat\$4) with (cylinder actuator) with open\$3 with provid\$3)	US-PGPUB; USPAT	OR	ON	2006/01/20 20:12
S17 2	105	valve and ((separat\$4 seperat\$4) with (cylinder actuator) with open\$3 with (saf\$3 prevent\$3 prohibit\$3) with pressur\$7)	US-PGPUB; USPAT	OR	ON	2006/01/20 20:13
S17 3	88	valve same ((separat\$4 seperat\$4) with (cylinder actuator) with open\$3 with (saf\$3 prevent\$3 prohibit\$3) with pressur\$7)	US-PGPUB; USPAT	OR	ON	2006/01/20 20:13
S17 4	257	((door closure) with ("opening cylinder" "opening actuator"))	US-PGPUB; USPAT	OR	ON	2006/01/23 09:15
S17 5	7	((door closure) with ("opening cylinder" "opening actuator")) same ((door closure) with ("closing cylinder" "closing actuator"))	US-PGPUB; USPAT	OR	ON	2006/01/23 09:18
S17 6	14	(door closure) same ("opening cylinder" "opening actuator") same ("closing cylinder" "closing actuator")	US-PGPUB; USPAT	OR	ON	2006/01/23 09:48
S17 7	7	S176 not S175	US-PGPUB; USPAT	OR	ON	2006/01/23 09:19
S17 8	5	(door closure) same ("opening cylinder" "opening actuator") same ("closing cylinder" "closing actuator")	EPO; JPO; DERWENT	OR	ON	2006/01/23 11:01
S17 9	1	(118/715-733.ccls. 118/50.ccls. 156/345.\$ccls.) and ((door closure) with (cylinder actuator) with open\$3 with clos\$3)	EPO; JPO; DERWENT	OR	ON	2006/01/23 11:02
S18 0	71	(118/715-733.ccls. 118/50.ccls. 156/345.\$ccls.) and ((door closure) with (cylinder actuator) with open\$3 with clos\$3)	US-PGPUB; USPAT	OR	ON	2006/01/23 11:47
S18 1	74	("134"/\$.ccls.) and ((door closure) with (cylinder actuator) with open\$3 with clos\$3)	US-PGPUB; USPAT	OR	ON	2006/01/23 11:47

EAST Search History

S18 2	16	("134"/\$.ccls.) and ((door closure) with ((cylinder actuator) with open\$3 with clos\$3) same pressur\$6)	US-PGPUB; USPAT	OR	ON	2006/01/23 11:48
S18 3	222	pressur\$4.clm. and chamber.clm. and door.clm. and cylinder.clm. and open\$3.clm. and clos\$3.clm.	US-PGPUB; USPAT	OR	ON	2006/04/12 16:16
S18 4	105	pressur\$4.clm. and chamber.clm. and door.clm. and cylinder.clm. and open\$3.clm. and clos\$3.clm. and seal\$3.clm.	US-PGPUB; USPAT	OR	ON	2006/04/12 18:24
S18 5	167	"134"/\$.ccls. and ((door closure) with cylinder)	US-PGPUB; USPAT	OR	ON	2006/04/12 18:24
S18 6	32	"134"/\$.ccls. and ((door closure) with cylinder with pressur\$5)	US-PGPUB; USPAT	OR	ON	2006/04/12 18:24